

What is Claimed is:

1. A display device, comprising:

a controller dividing a screen into a first display window and a second display window, and outputting control signals based on display options corresponding to the first display window and the second display window; and

a video processing unit separating an original image into a first image part and a second image part, and modifying picture qualities of each of the first image part and the second image part that are to be displayed on each of the first display window and the second display window, depending upon the control signals.

2. The display device of claim 1, wherein the display options include position and size adjustments for each of the first display window and the second display window.

3. The display device of claim 1, wherein the display options include picture quality adjustments for each of the first image part and the second image part that are to be displayed on each of the first display window and the second display window.

4. The display device of claim 1, wherein the video processing unit adjusts the position and the size of each of the first image part and the second image part, so as to be identical to the position and the size of each of the first display window and the second display window.

5. The display device of claim 1, wherein the video processor comprises:

a video adjusting unit separating the original image into the first image part and the second image part, and adjusting the position and the size of the first image part and the second image part that are to be displayed; and

a first video processor and a second video processor modifying the picture quality of each of the first image part and the second image part, so as to provide different picture qualities.

10 6. A display device, comprising:

a controller outputting control signals including display information for each of a plurality of divided display windows; and

a video processing unit converting an original image into either a plurality of full images each having a different picture quality, or a plurality of image parts each having a different picture quality, depending upon the display information, and displaying the full images or the image parts on each of the display windows.

7. The display device of claim 6, wherein the display information includes information representing whether the full images are to be displayed on each of the display windows or whether the image parts are to be displayed on each of the display windows.

8. The display device of claim 6, wherein the display information includes alignment and size information of each of the display windows.

5           9. The display device of claim 6, wherein the video processing unit adjusts either a position and a size of each of the full images that are to be displayed, or a position and a size of each of the image parts that are to be displayed, depending upon the display information.

10           10. The display device of claim 6, wherein the video processing unit comprises:  
a video adjusting unit outputting the original image or separating the original image into a plurality of separated images, depending upon the display information;  
and  
a plurality of video processors converting the original image into the full image  
15 each having a different picture quality, or converting the separated images into a plurality of image parts each having a different picture quality.

11. A method of driving a display device, comprising:  
setting up display options for a first display window and a second display  
20 window, which are divided on a screen;  
outputting control signals based on the display options;

dividing an original image into a first image part and a second image part; and  
modifying a picture quality of each of the first image part and the second image  
part, so as to provide different picture qualities, wherein the first image part and the  
second image part are to be displayed on each of the first display window and the second  
5 image window.

12. The method of claim 11, wherein the setting up display options comprises  
setting up picture qualities of each of the first image part and the second image part,  
which are to be displayed on each of the first display window and the second display  
10 window.

13. The method of claim 11, wherein the setting up display options comprises  
setting up a position and a size of each of the first display window and the second display  
window.

14. The method of claim 11, wherein the setting up display options comprises  
setting up a ratio between the size of the first display window and the size of the second  
display window.

15. The method of claim 11, further comprising:  
adjusting a position and a size of each of the first image part and the second

image part, so as to be identical to the position and the size of each of the first display window and the second display window.

16. The method of claim 11, further comprising:

5       selecting any one of the first image part and the second image part, both of which are displayed on each of the first display window and the second display window; and

      displaying the selected image part on the first display window and the second display window.

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17. A method of driving a display device, comprising:

      outputting display information for a plurality of display windows, which are divided on a screen;

      converting an original image into either a plurality of full images each having a  
15   different picture quality, or a plurality of image parts each having a different picture quality, depending upon the display information; and

      displaying the full images or the image parts on each of the display windows.

18. The method of claim 17, wherein the converting an original image comprises

20   transmitting the original image to a plurality of video processors for converting the original image into either the plurality of full images each having a different picture

quality, or the plurality of image parts each having a different picture quality.

19. The method of claim 17, further comprising:

adjusting either a position and a size of each of the full images that are to be  
5 displayed, or a position and a size of each of the image parts that are to be displayed,  
depending upon the display information.

20. The method of claim 17, further comprising:

selecting one of the full images that are displayed on each of the display  
10 windows; and

zooming-in the selected full image and displaying the zoomed-in full image on  
all of the display windows.

21. The method of claim 17, further comprising:

15 selecting one of the image parts that are displayed on each of the display  
windows; and

displaying the image parts displayed on each of the display windows with the  
same picture quality as that of the selected image part.